

Equation of a Line HW

Algebra Foundations

Name _____

Date _____ Assignment #13

Find the slope. $slope = \frac{(y_2 - y_1)}{(x_2 - x_1)}$

A) Label your points $x_1 y_1$ and $x_2 y_2$.

B) Substitute the values into the slope formula above. (Calculate the slope).

C) Sketch the line and find the y-intercept.

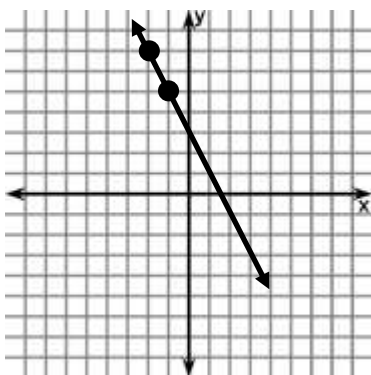
D) Write the equation of the line using the slope and the y-intercept.

1) $(-1,5), (-2,7)$
 $x_1 y_1 \quad x_2 y_2$

$$slope = \frac{(7 - 5)}{(-2 - -1)} = \frac{2}{-1}$$

y-int = _____ 3 _____

Equation: $y = \frac{2}{-1}x + 3$

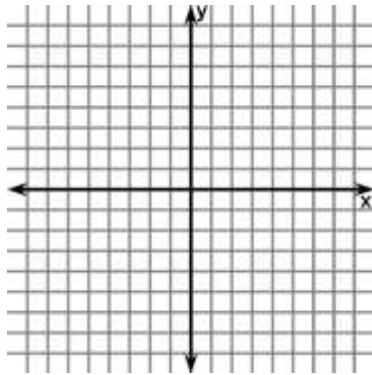


2) $(3,2), (8,5)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation of Line: _____

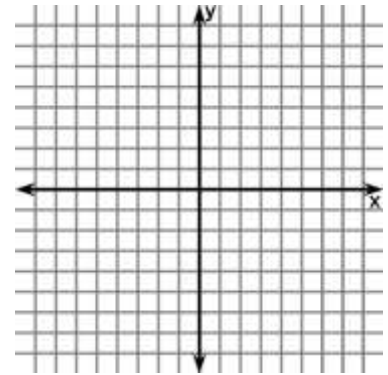


3) $(2,5), (5,2)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation of Line: _____

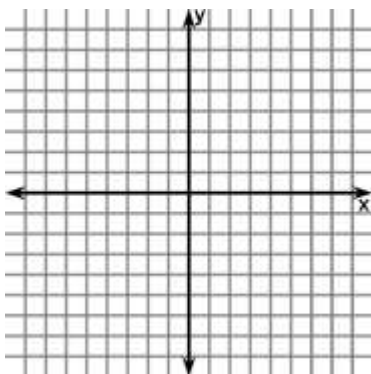


4) $(2,-3), (-1,2)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation of Line: _____

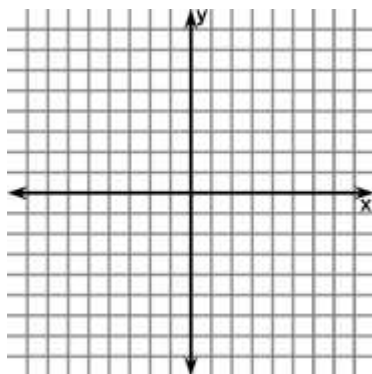


5) $(4,-1), (2,-6)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation of Line: _____

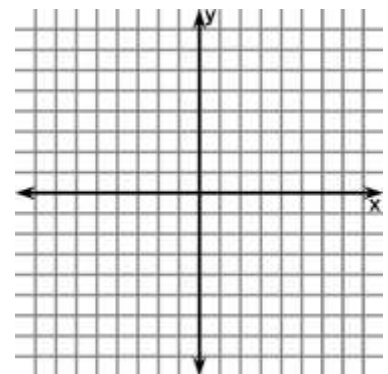


6) $(1,3), (2,2)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation of Line: _____

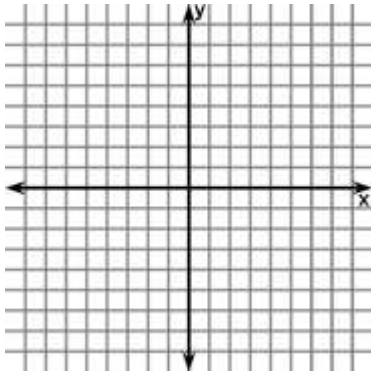


7) $(-7,3), (7,-2)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation
of Line: _____

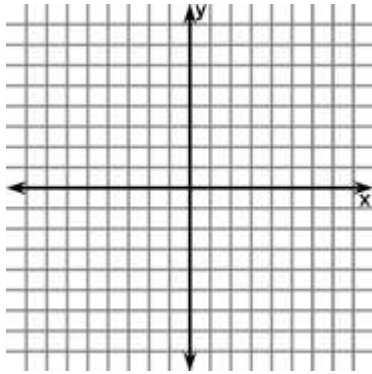


8) $(8,-2), (6,2)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation
of Line: _____

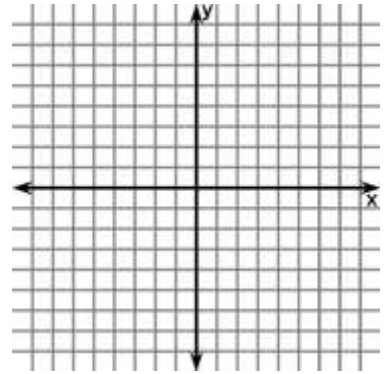


9) $(5,7), (3,-2)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation
of Line: _____

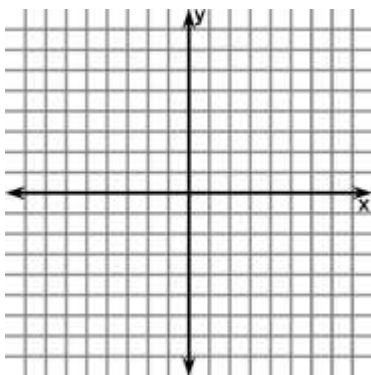


10) $(-2,5), (7,-8)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation
of Line: _____

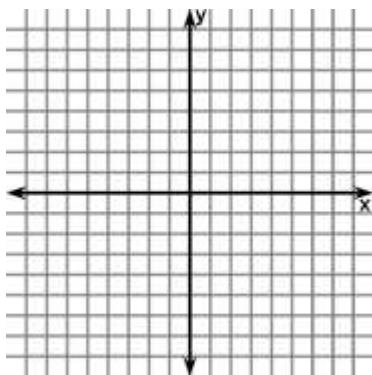


11) $(5,-3), (4,3)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation
of Line: _____



12) $(2,-5), (-2,1)$
 $x_1 y_1 \quad x_2 y_2$

slope = _____

y-int = _____

Equation
of Line: _____

